

FIG.1 PRIOR ART

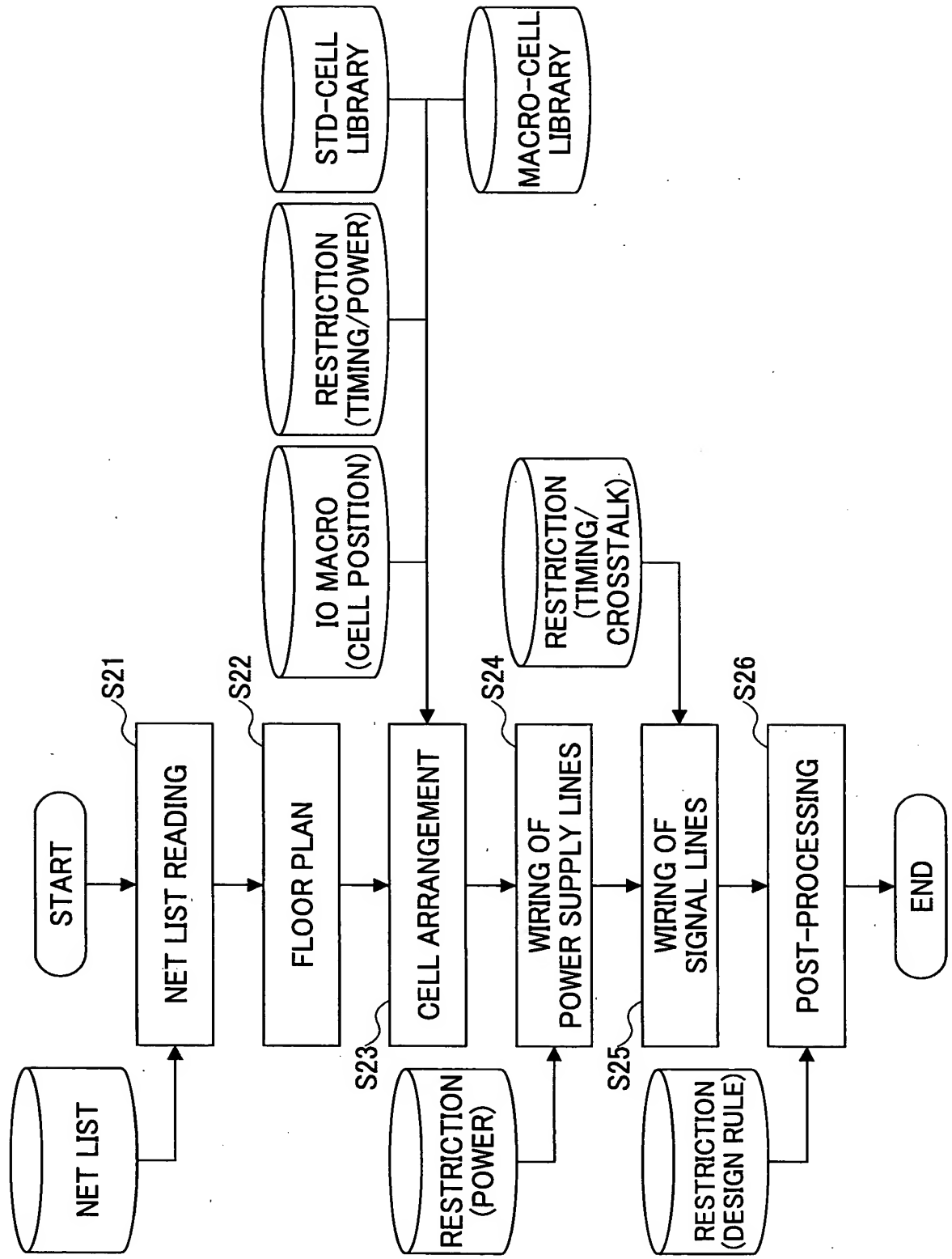


FIG.2 PRIOR ART

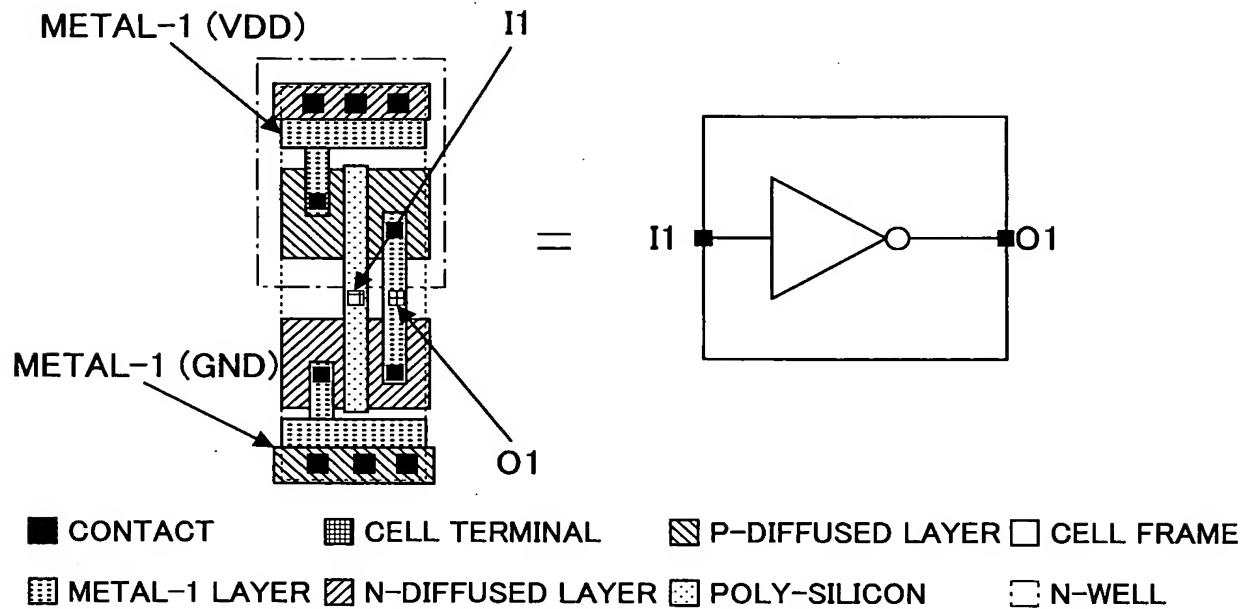


FIG.3 PRIOR ART

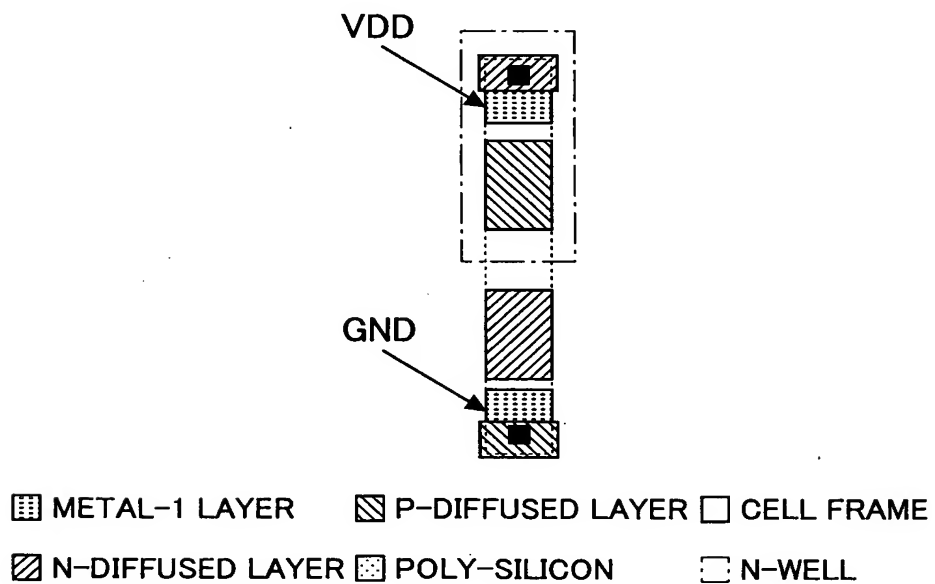


FIG.4 PRIOR ART

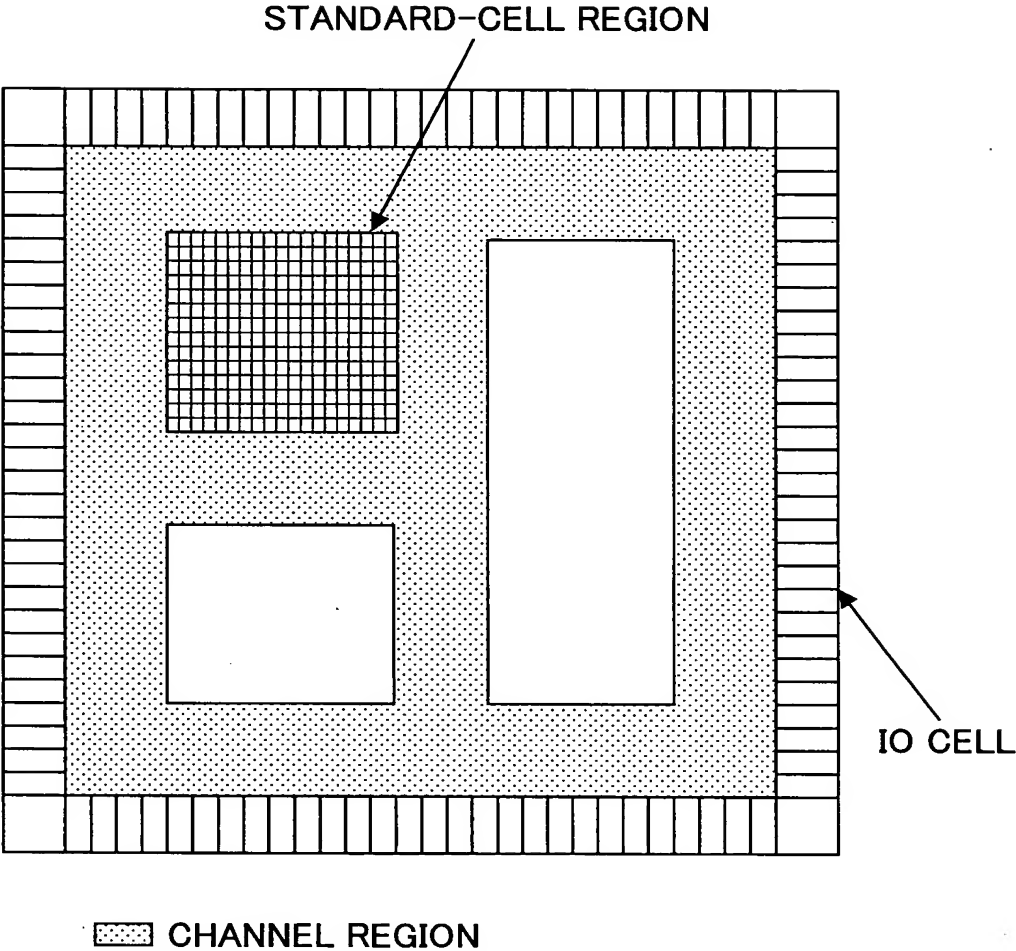


FIG.5A PRIOR ART

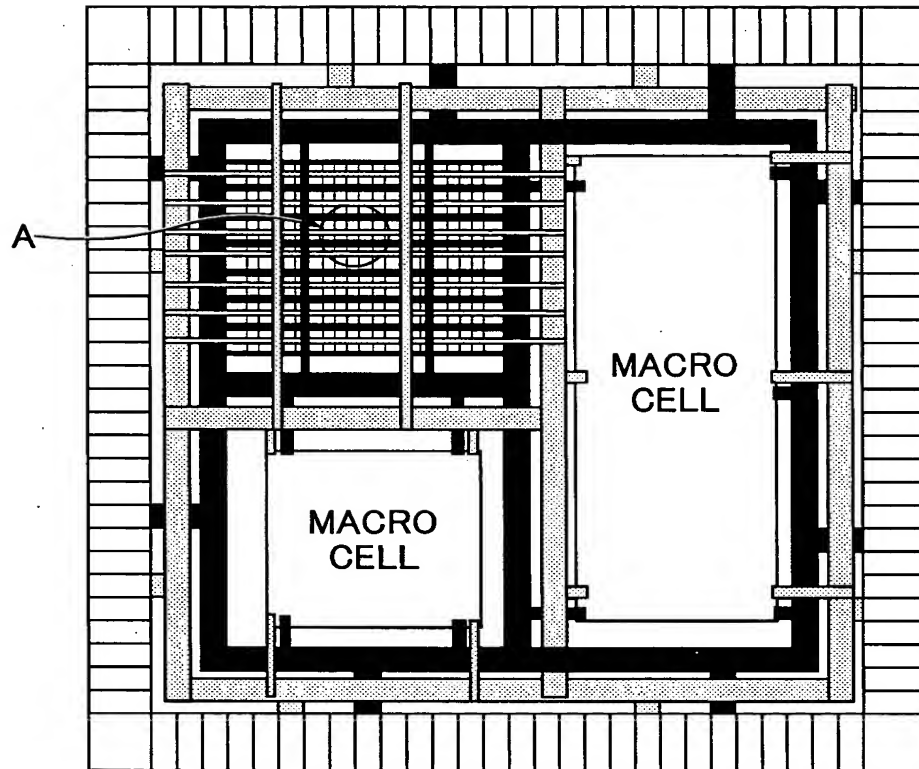


FIG.5B PRIOR ART

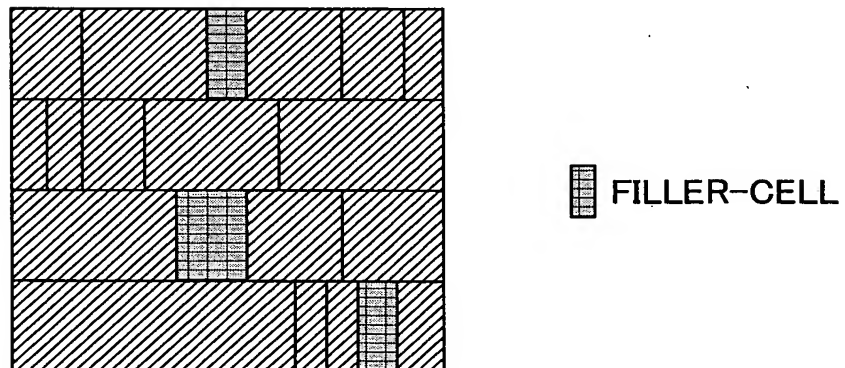


FIG.6A

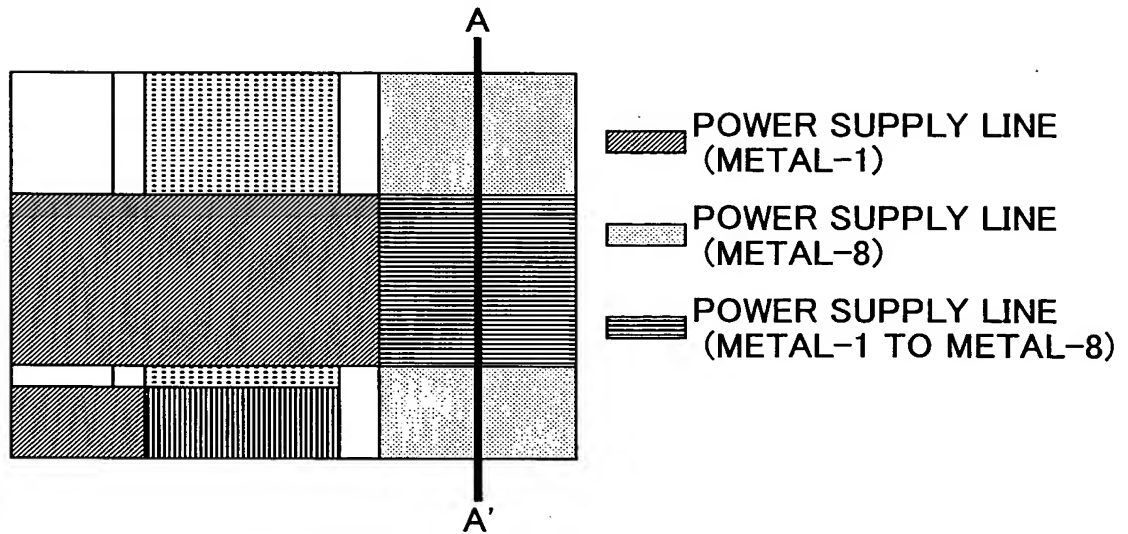


FIG.6B

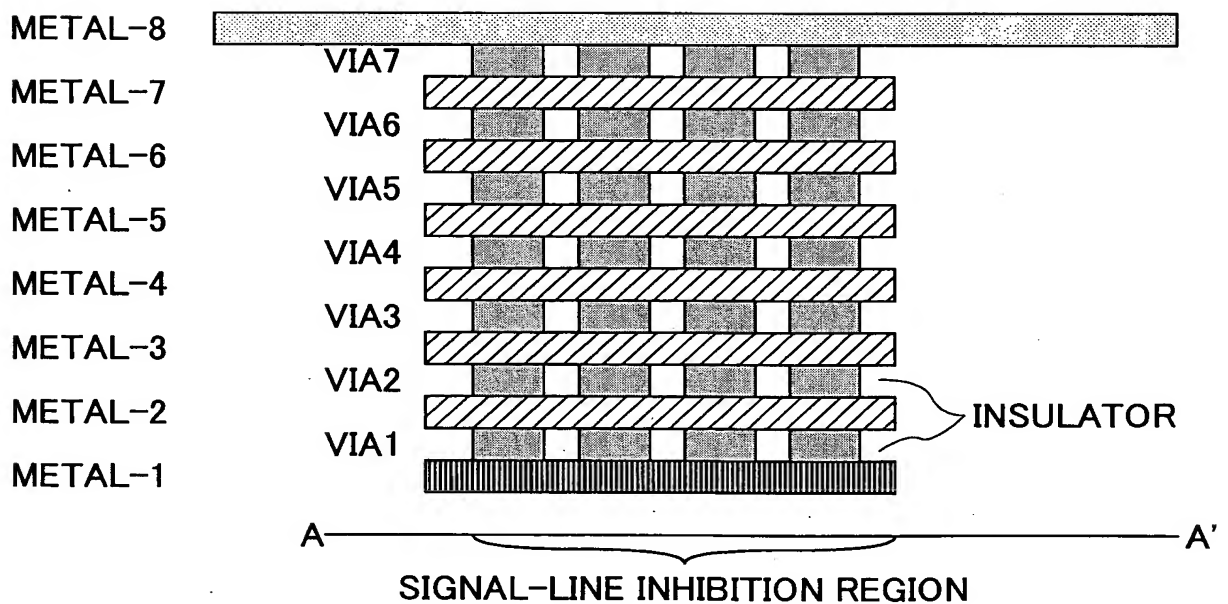


FIG.7

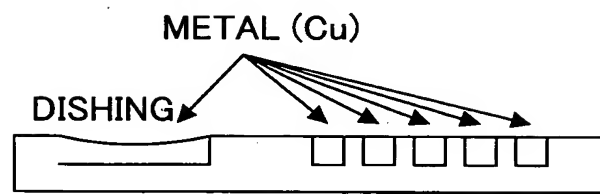


FIG.8A

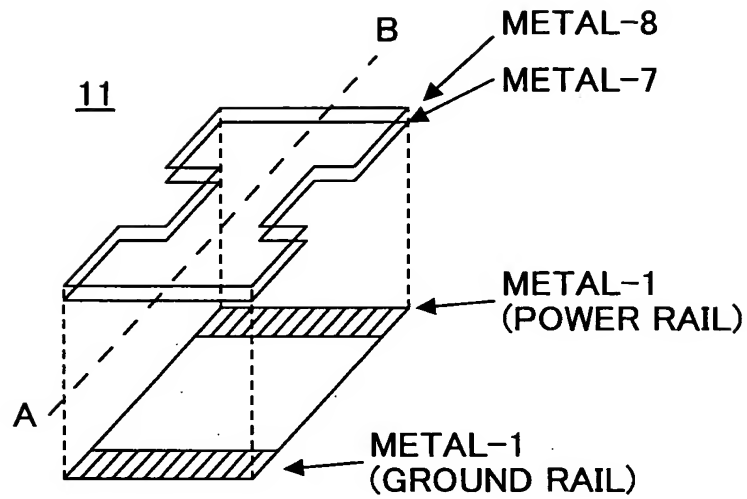


FIG.8B

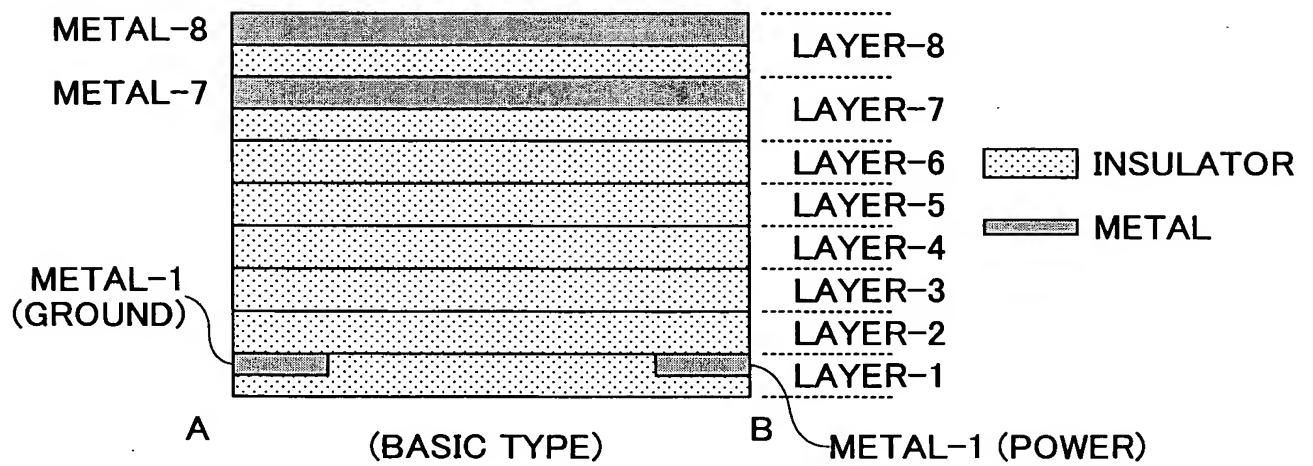


FIG.9A

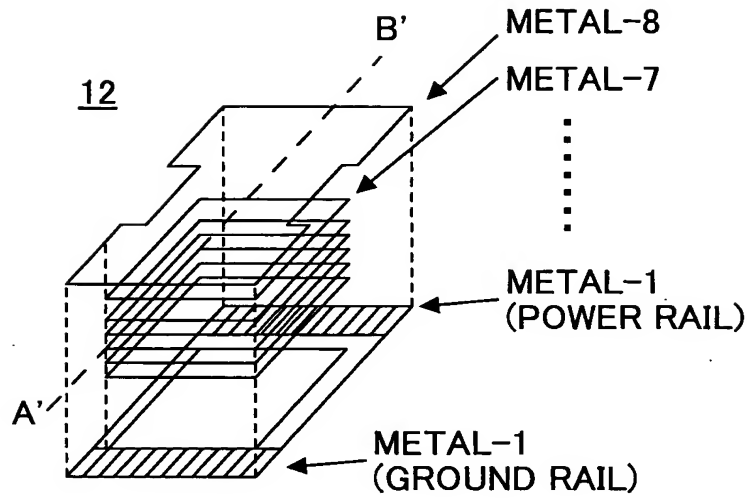


FIG.9B

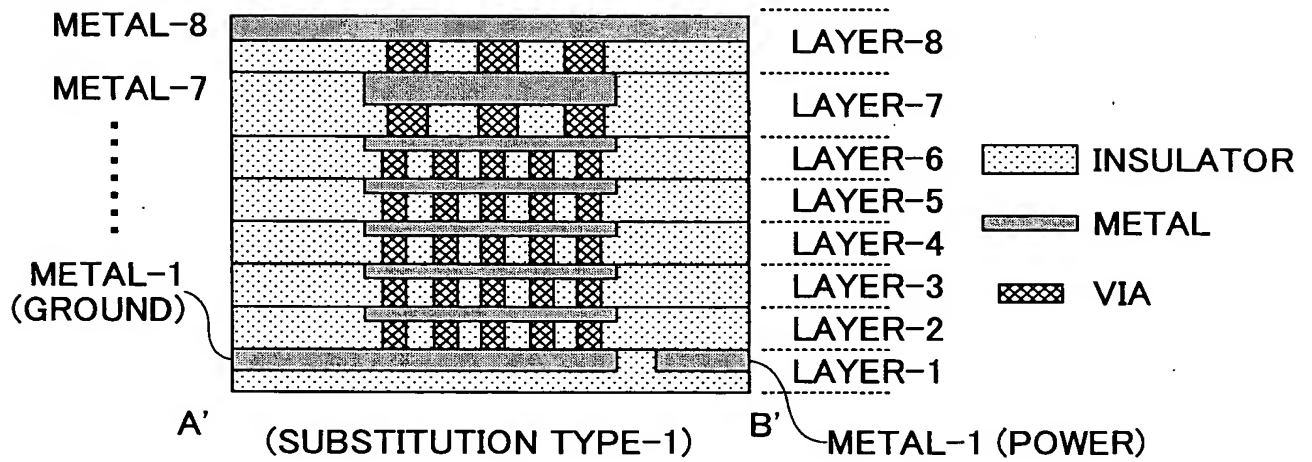


FIG.10A

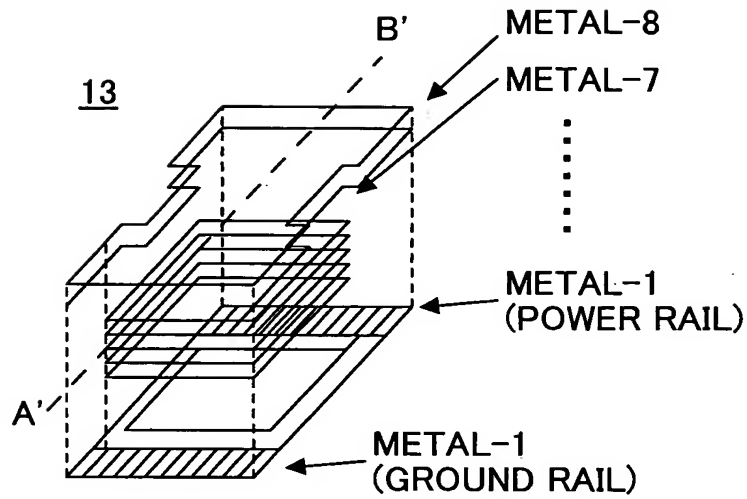


FIG.10B

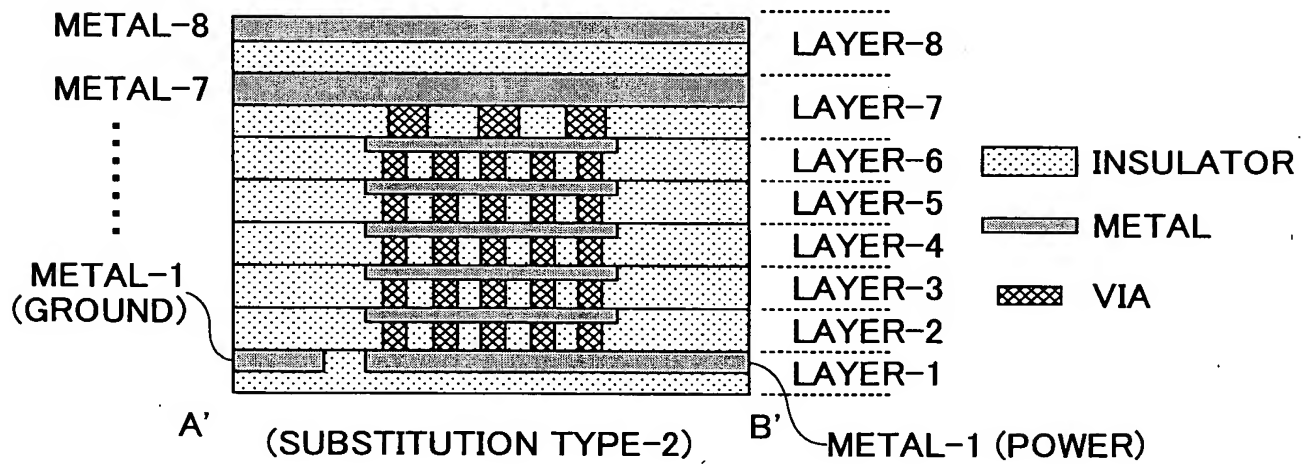


FIG.11

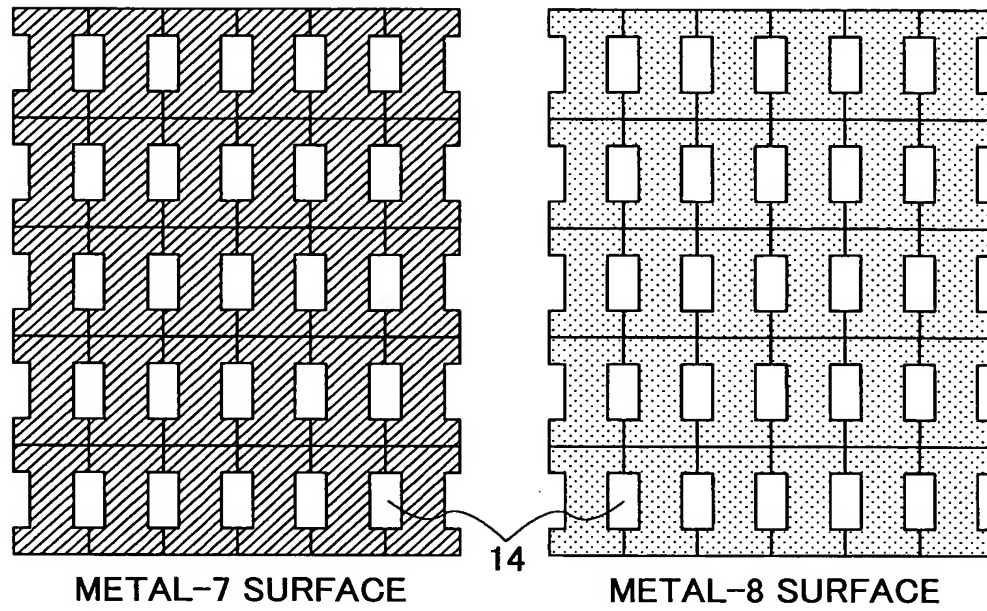


FIG.12

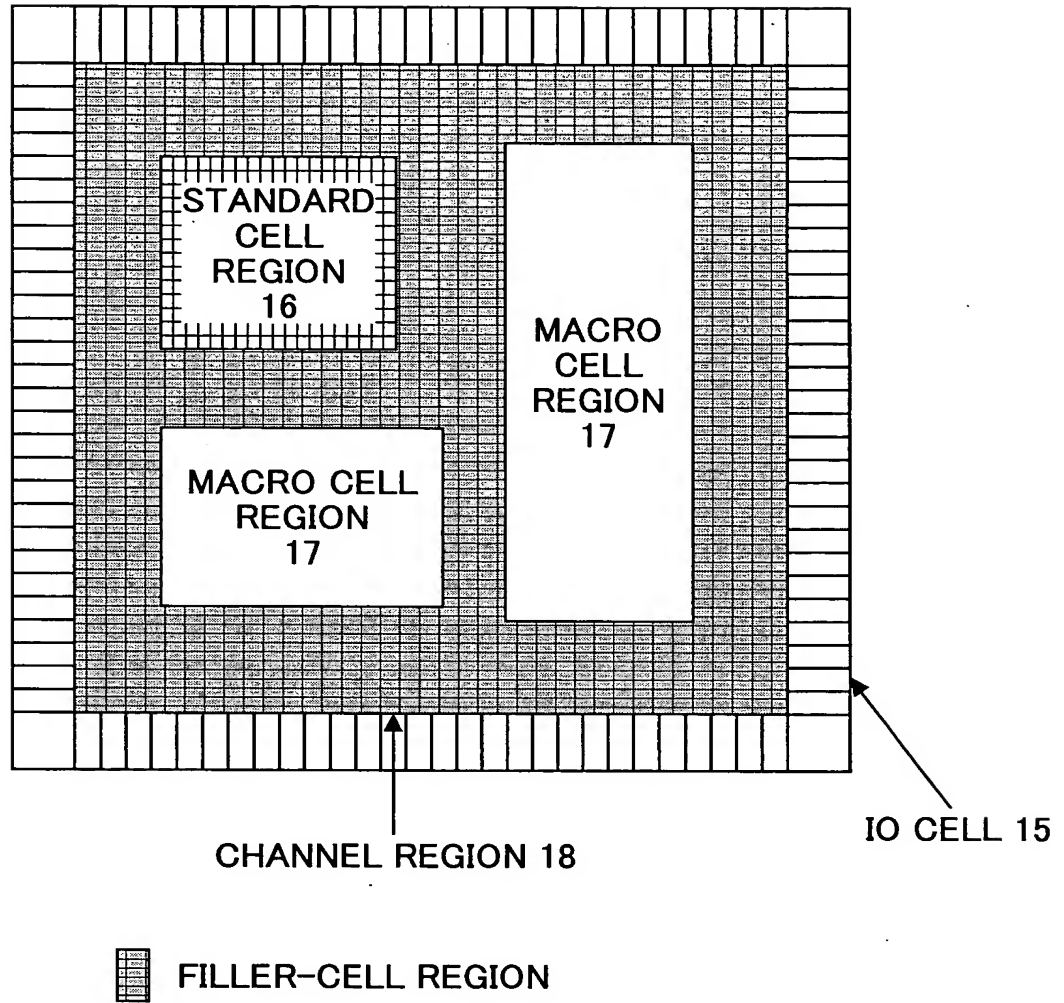


FIG.13

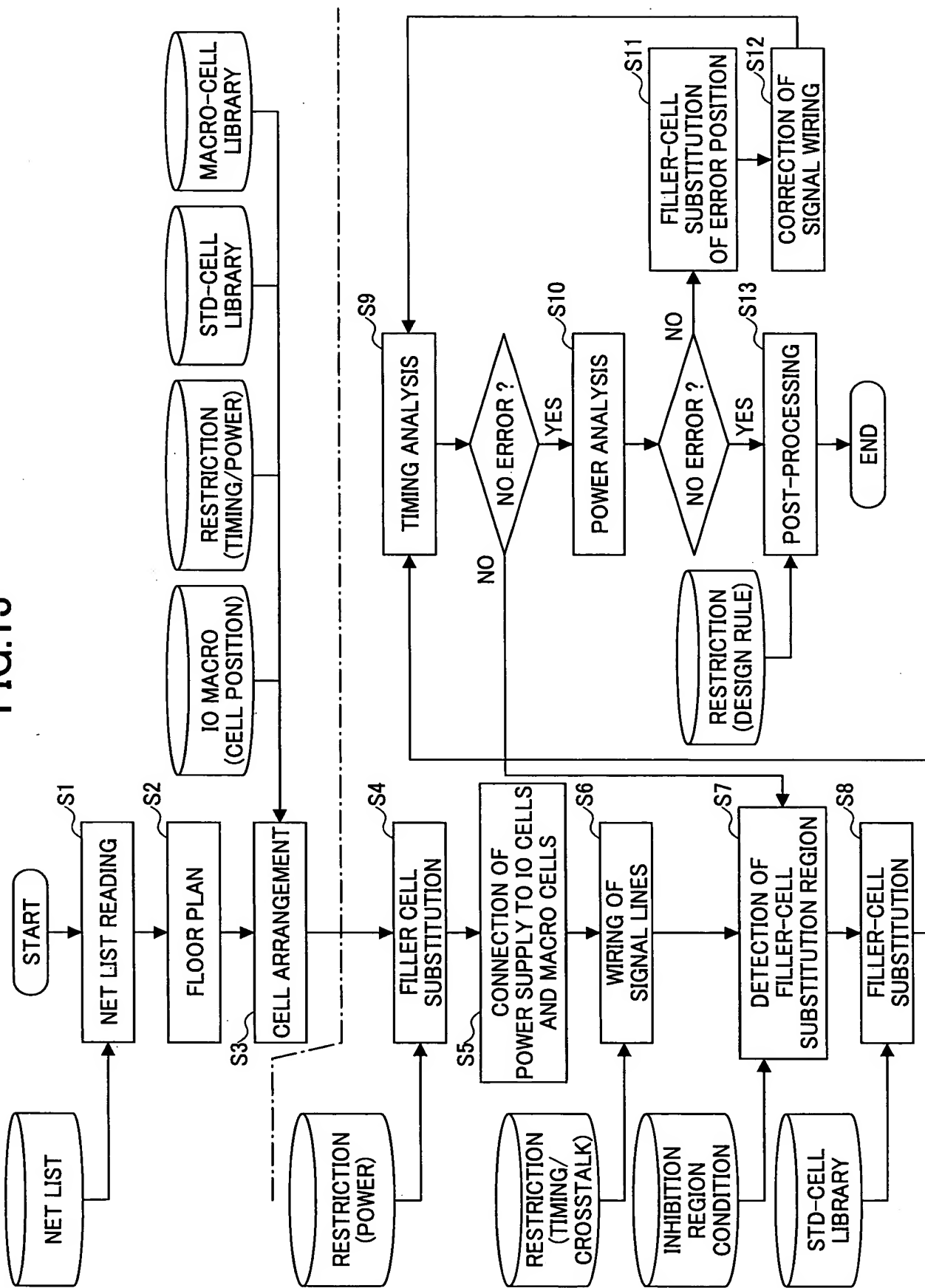


FIG.14A

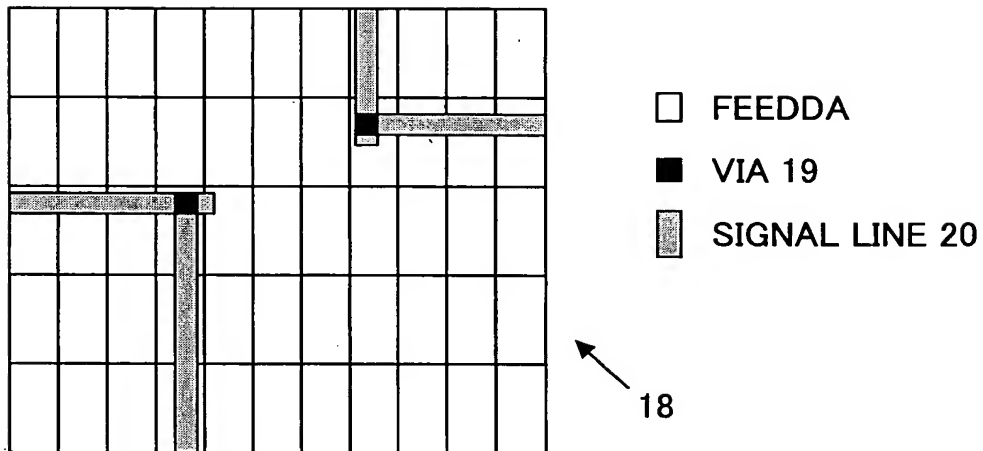


FIG.14B

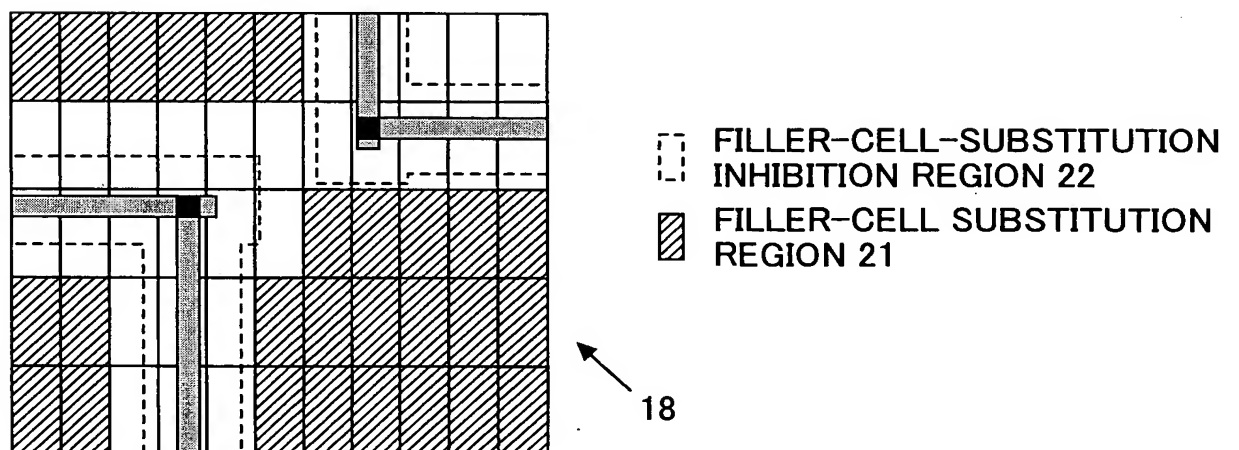
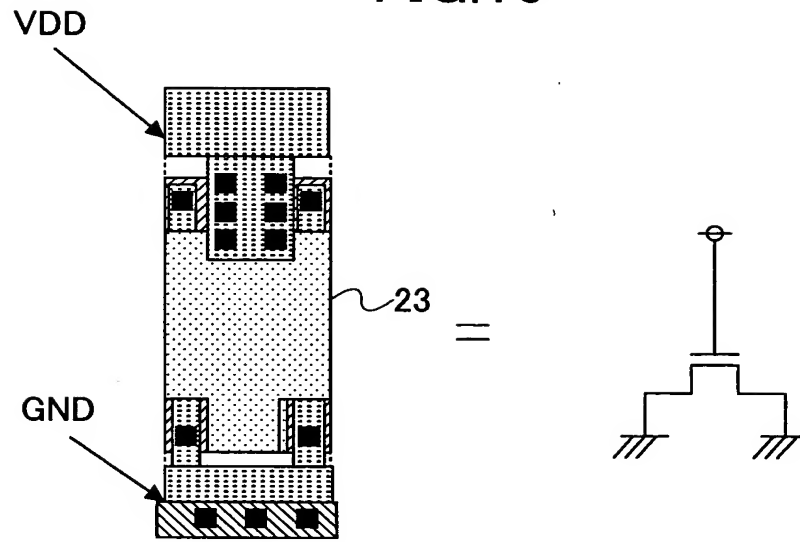


FIG.15



- | | | | |
|-----------------|--------------------|--------------------|--------------|
| ■ CONTACT | ▨ CELL TERMINAL | ▧ P-DIFFUSED LAYER | □ CELL FRAME |
| ▤ METAL-1 LAYER | ▩ N-DIFFUSED LAYER | ▦ POLY-SILICON | □ N-WELL |

FIG.16

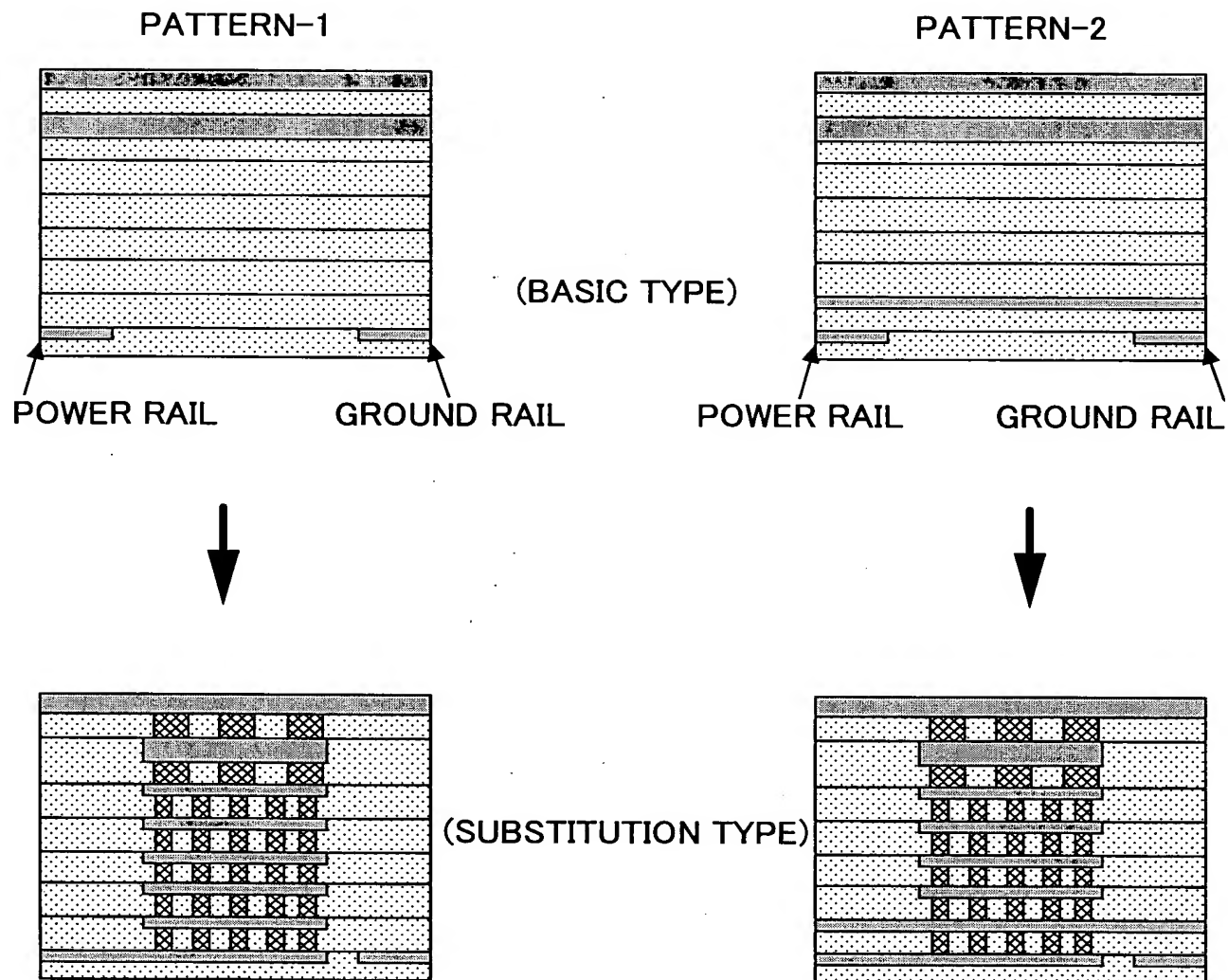


FIG.17

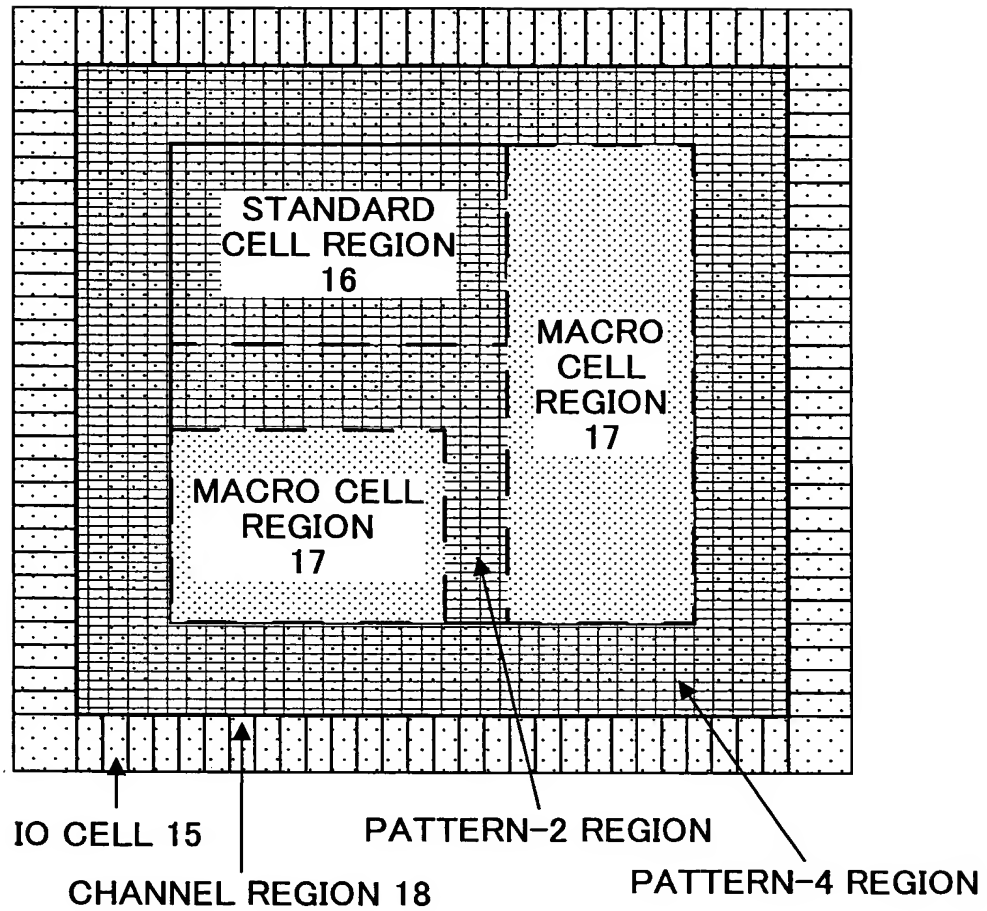


FIG.18

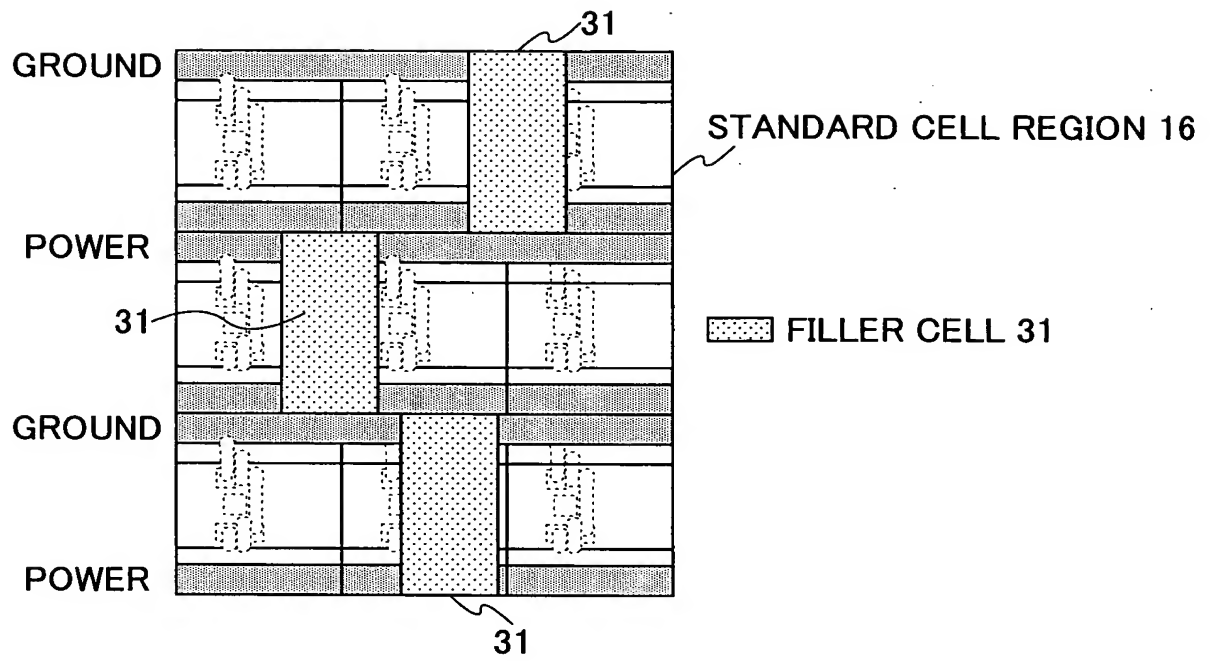


FIG.19

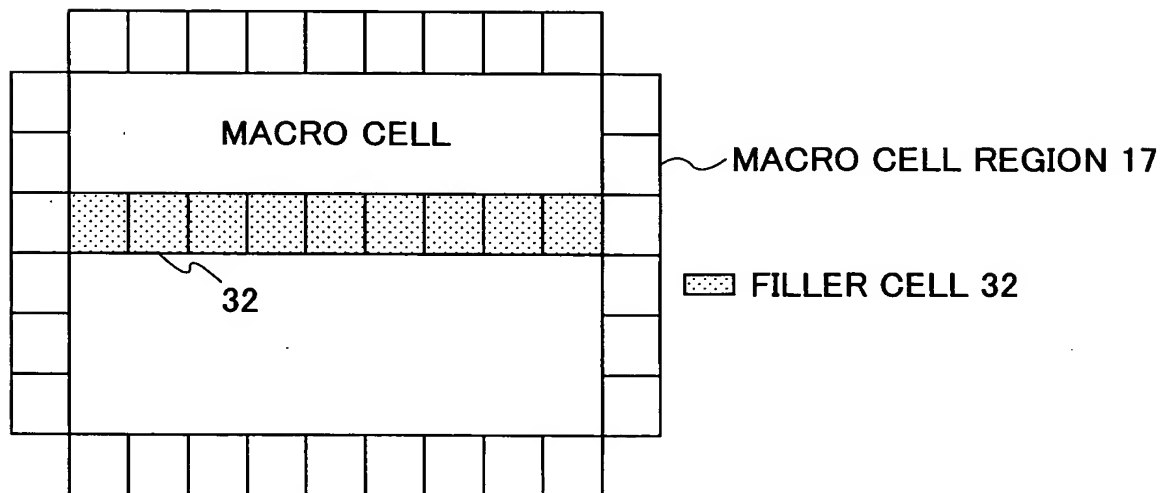


FIG.20

	FILLER CELL PATTERNS					
	PATTERN-1	PATTERN-2	PATTERN-3	PATTERN-4	PATTERN-5	PATTERN-6
METAL-8	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND
METAL-7	POWER	POWER	POWER	POWER	POWER	POWER
METAL-6	NONE	NONE	NONE	NONE	NONE	NONE
METAL-5	NONE	NONE	NONE	NONE	NONE	NONE
METAL-4	NONE	NONE	NONE	POWER	GROUND	POWER
METAL-3	NONE	NONE	POWER	GROUND	GROUND	NONE
METAL-2	NONE	POWER	GROUND	POWER	POWER	NONE
METAL-1	PWR/GRD	PWR/GRD	PWR/GRD	PWR/GRD	PWR/GRD	PWR/GRD